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# Driving Forces for Integration of Pesticide and Food Safety Systems

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Module Objective:

Understand the primary drivers for integration of pesticide and food safety systems



# Outline

- Driving Forces Voluntary Standards
- Relevancy to USAID
- Integrating USAID and markets
- How course this course will help



# Shifting Agrifood Concerns

1970s



2005



1980s



2000



1990s



# Agriculture Remains Dangerous

- 21 Fatal accidents per 100,000 workers
- 50% fatalities in agriculture
- 170,000 fatalities/year
- 2-5M pesticide poisonings/year
- 40,000 fatal poisonings/year



# Food Borne Disease Worsening

- 1.8M died from food borne disease in 2005
- 30% of US population suffers annually
- \$35B annual costs in US alone



# Food Safety Problems can be Lethal

October 6, 2007

## After Extensive Beef Recall, Topps Goes Out of Business



### China Executes Former Head of Food, Drug Safety

*Officials Unveil Plan to Retool Regulation*

By ARIANA EUNJUNG CHA  
*Washington Post Foreign Service*

BELJING, July 10 — Moving to address mounting concerns about the safety of its exports, China announced Tuesday that it had executed the former head of its food and drug safety agency for accepting bribes in exchange for approving substandard medicines.



Zheng Xiaoyu, former head of China's State Food and Drug Administration, was executed yesterday for taking bribes to approve low-quality drugs.



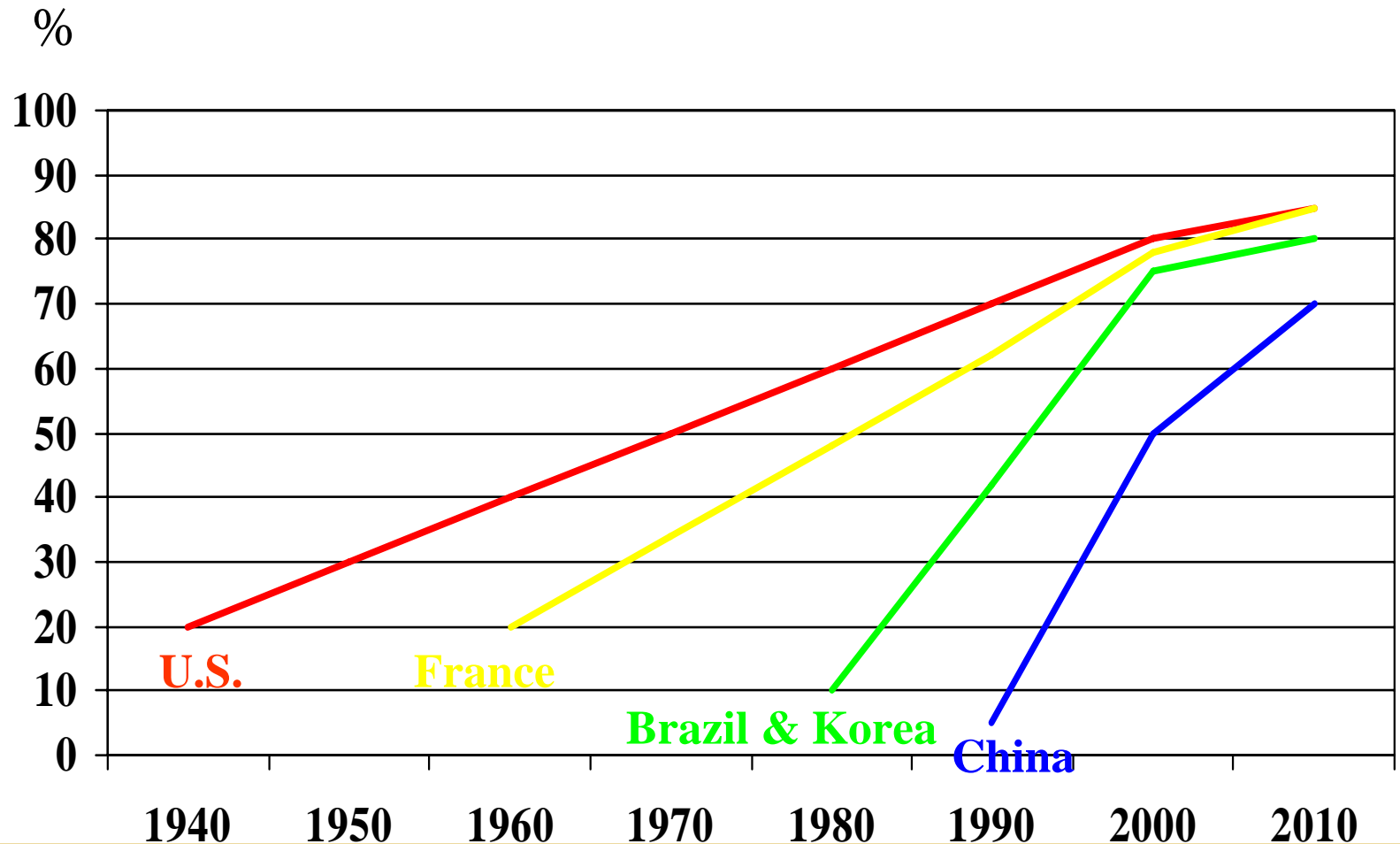
# Agriculture is the Center of the Global Biodiversity Crisis

- 70% of forest loss due to agricultural conversion
- Risk losing between 30-50% remaining species



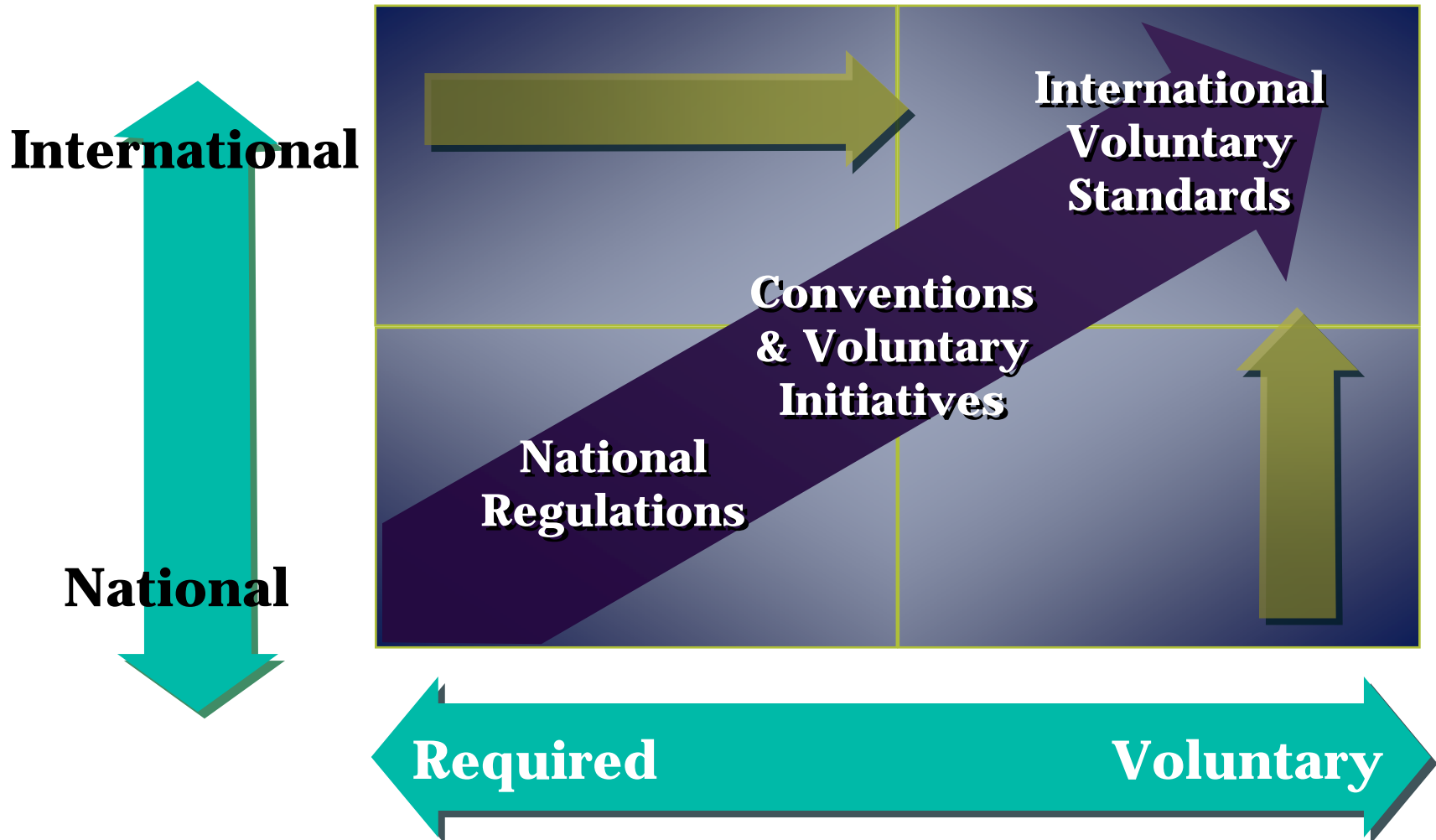


# Supermarket Consolidation Drives Agrifood Interests





# Trends in Food Safety Standards



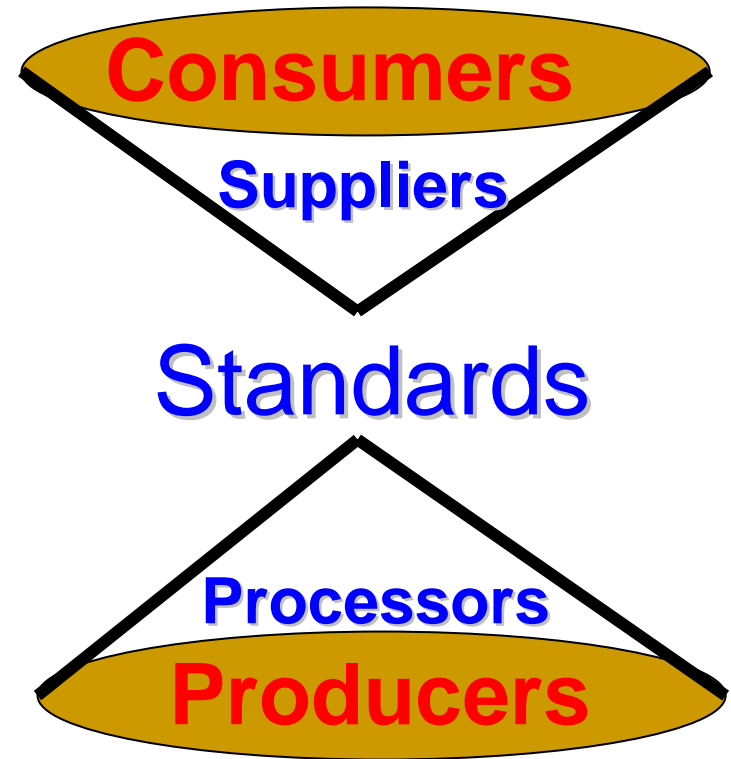
# Voluntary Standard Drivers

- Public sector
  - ❑ Reacting to food safety incidents
  - ❑ Regulatory oversight and surveillance
  - ❑ New food safety agencies
- Consumers
  - ❑ More informed, concerned, vocal
  - ❑ More health conscious yet obese
  - ❑ Lifestyle changes and consumer behavior
- Markets
  - ❑ More convenience, exotic but less seasonal
  - ❑ Dominance of supply chains by chain captains
  - ❑ Liability firewall between retailers & processors



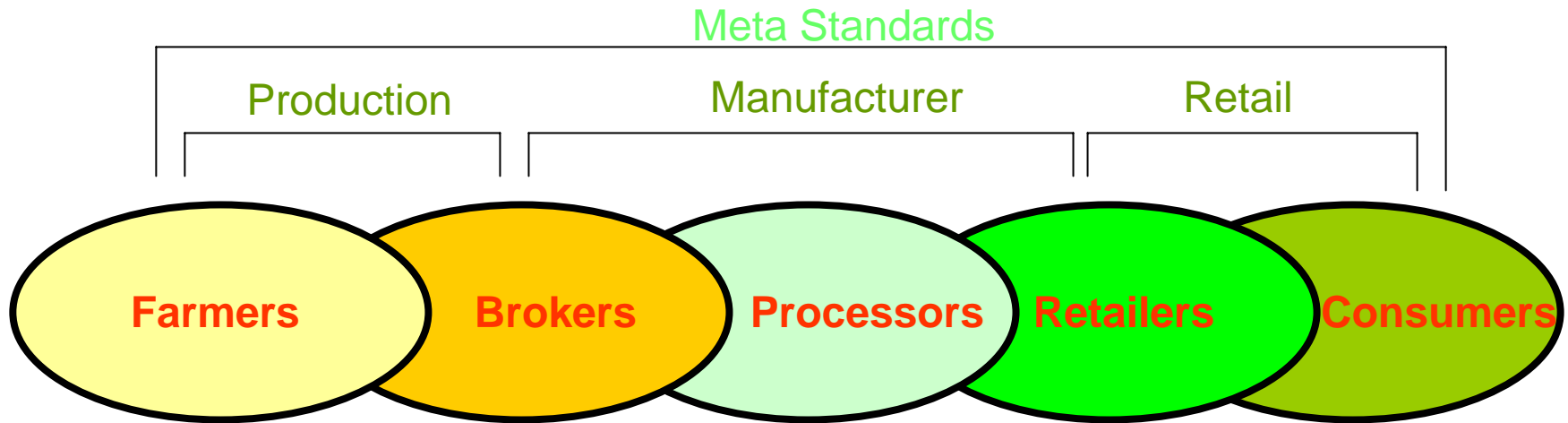
# Many Roles for Standards

- Ensure quality conformity
- Provide product traceability
- Product Safety & healthiness
- Cost reduction
- Capture the value of environmental goods and services
- Move “Pure Public” goods to “Market Goods” box



***Risk Reduction!***

# Many Types of Standards



- Meta-standards – Organics, Rainforest Alliance, BMP
- Production – GlobalGAP
- Manufacturers – BRC, IFS, ISO 14001/22000
- Retail – Starbucks CAFÉ, Fair Trade,

# Standards apply differently

## ■ Post farm gate

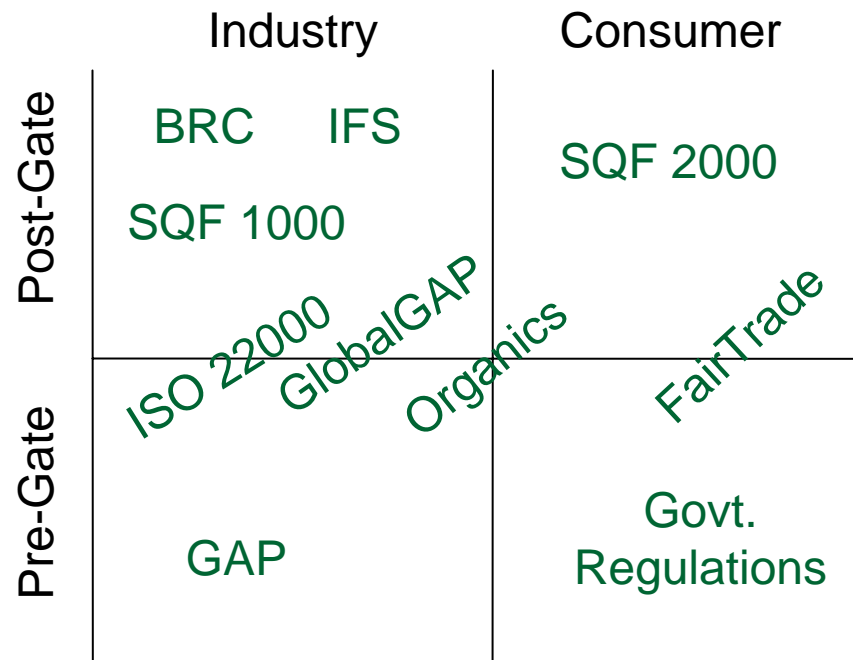
- ❑ SQF 2000
- ❑ BRC Global

## ■ Pre farm gate

- ❑ GAP
- ❑ Govt. Regulations

## ■ Crossover

- ❑ ISO 22000
- ❑ GlobalGAP

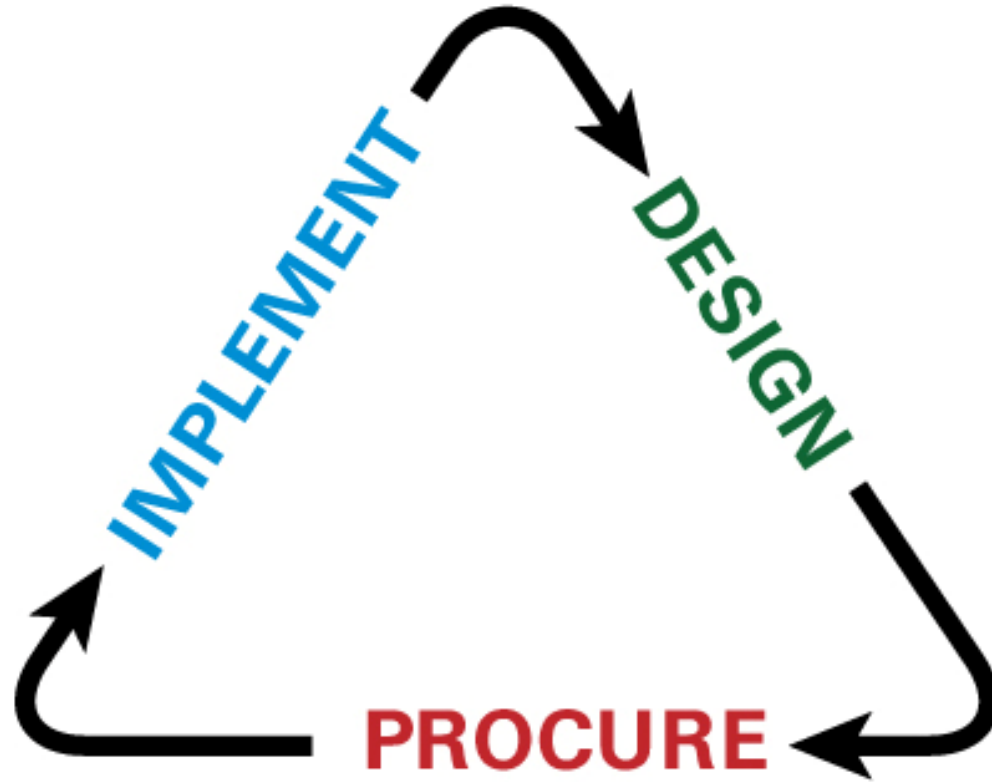


# Overview of Primary Food Safety Standards

	<b>BRC Global Standard - Food</b>	<b>IFS</b>	<b>SQF</b>	<b>Dutch HACCP Code</b>	<b>EurepGAP</b>	<b>ISO 22000</b>
<b>Geographical range</b>	British market (and Scandinavian market to a less extent)	essentially German and French market	American and Australian market	Dutch market	European market	international
<b>Intended operators</b>	food manufacturers (originally for private label products, but increasingly also for branded products)	food manufacturers (originally for private label products, but increasingly also for branded products)	SQF1000: food primary producers  SQF 2000: food industries	all operators handling food (but primary producers are not explicitly mentioned)	primary producers	all operators handling food (including primary producers)
<b>Provisions scope</b>	quality management system + HACCP system + general good manufacturing practices	quality management system + HACCP system + general good manufacturing practices	exclusively quality management system	quality management system +HACCP system	general good agricultural practices (including environmental issues)	quality management system +HACCP system
<b>Requirements</b>	the majority of UK retailers require BRC certification from all their suppliers for their private label products	the majority of French and German retailers require IFS certification from all their suppliers for their private label products	numerous American and Australian retailers recognize SQF certification, but they do not seem to require it systematically	Not available	some European retailers seem to require EurepGAP certification from all their suppliers, at least for fresh fruit and vegetables	acceptance by retailers and producers cannot yet be assessed



# What does this Mean for USAID?



**Projects are strategic and short term stakeholders**

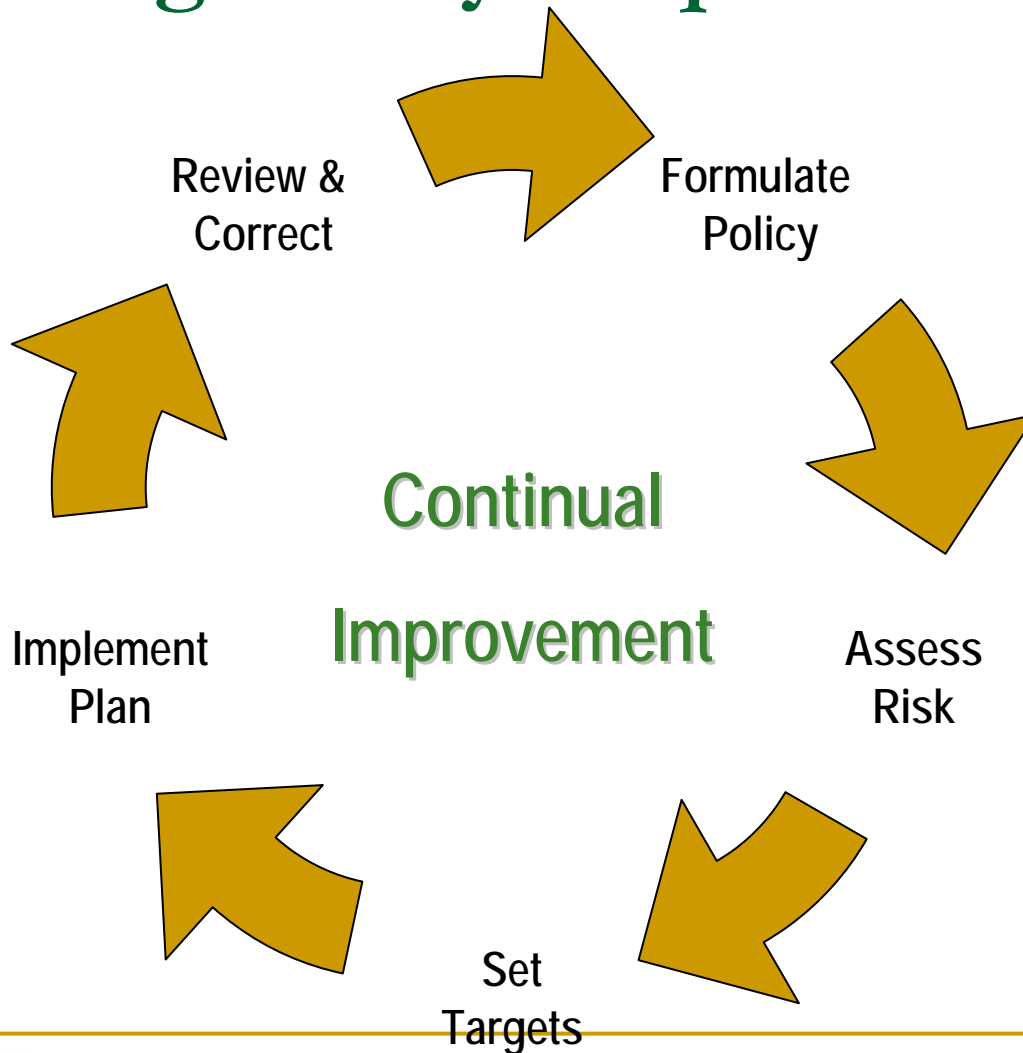




# Regulatory Requirements are the Basis for Voluntary Standards



# Common Elements of Standards Mirror Regulatory Requirements



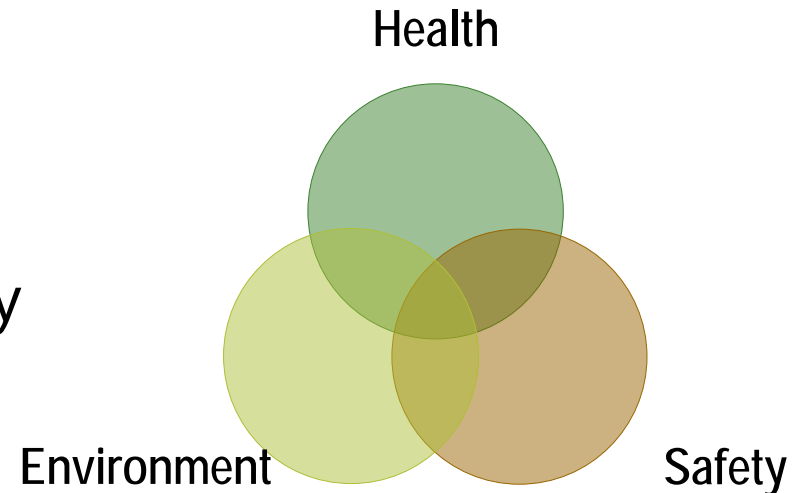
# Compliance through Conformance

- Achieve long term goals of safe pesticide use through strategic placement of USAID values into food safety management systems
- Leveraging market conformance motivates partners and their clients to comply with USAID and host country regulations

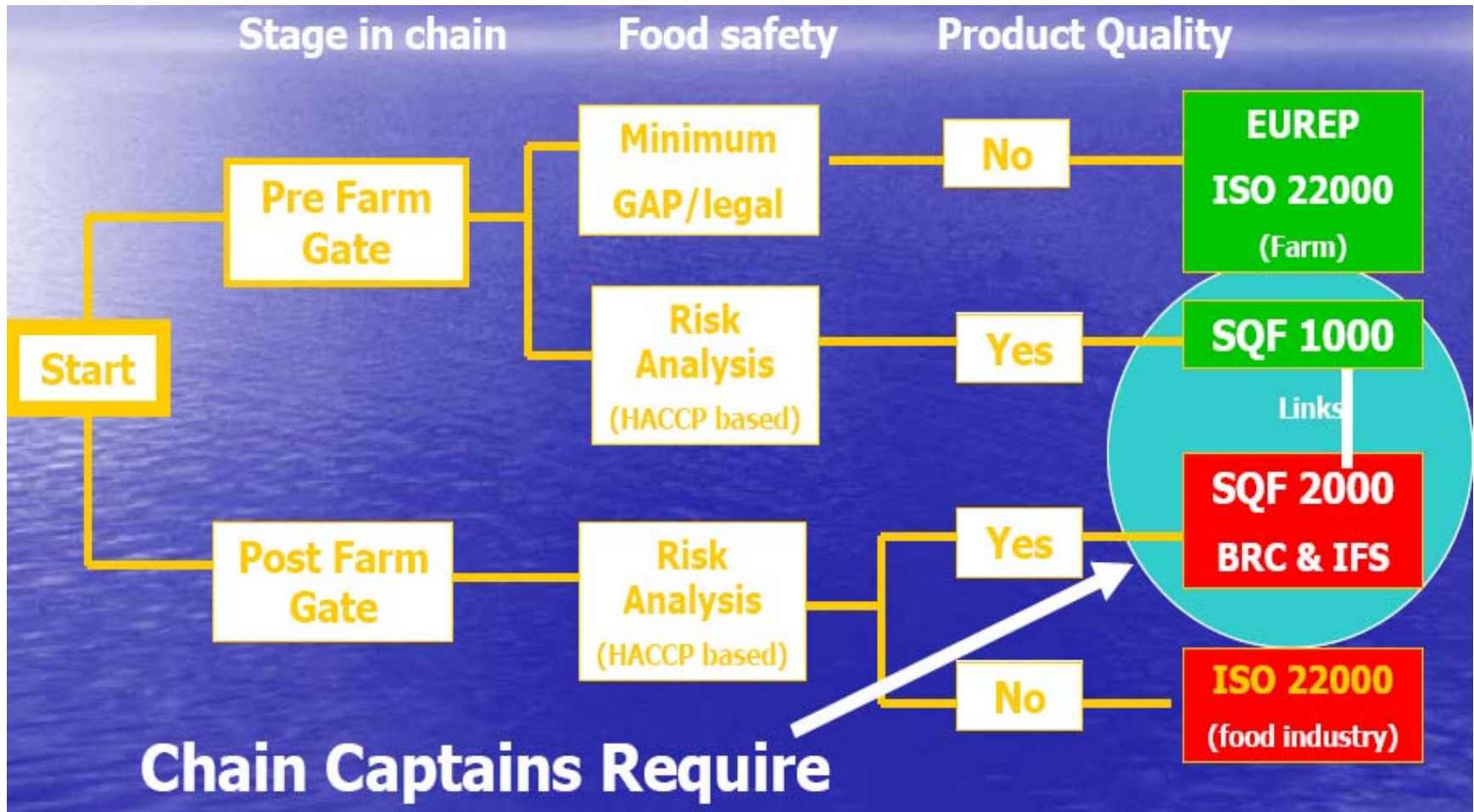


# Considerations for Integration

- Policy, plan, and implement in all elements
- Integrated risk assessment
- Communications, training, documentation and emergency response
- Metrics and cost accounting structures
- Internal and external auditing requirements and providers



# Value Chain Requirements Differ



Courtesy: Dr. Richard Baines,  
The Royal Agricultural College, Cirencester,  
Gloucestershire, UK.



# Ingredients for Competing Using Standards

- Host country ability to recognize & normalize standards (equivalency)
- Installed private sector capacity to implement and audit to various standards
- Good and reliable relations with an importer, trader or wholesaler in the target market
- Access to safe, clean and efficient production technologies for agrifood processing





# Emerging Trends | Obstacles

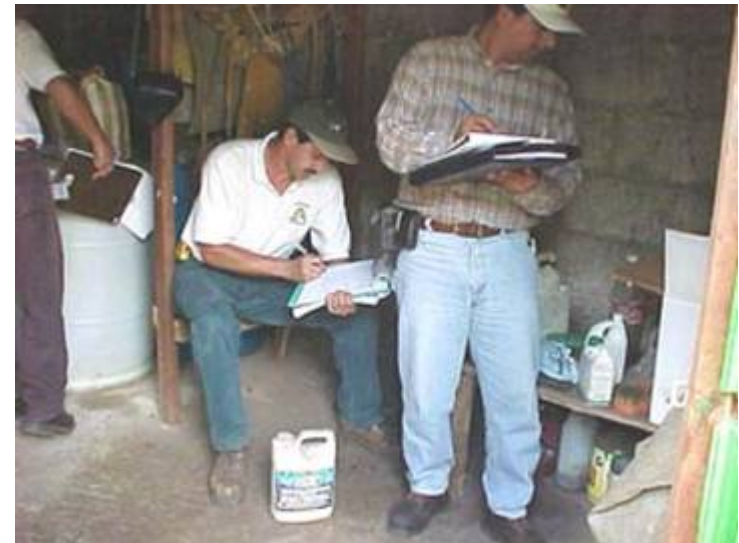
- Food safety concerns overshadow biodiversity
- Lack of landscape planning context and capacity
- Inadequate incentives for conformance
- Access to standards
- Cost of maintaining certification



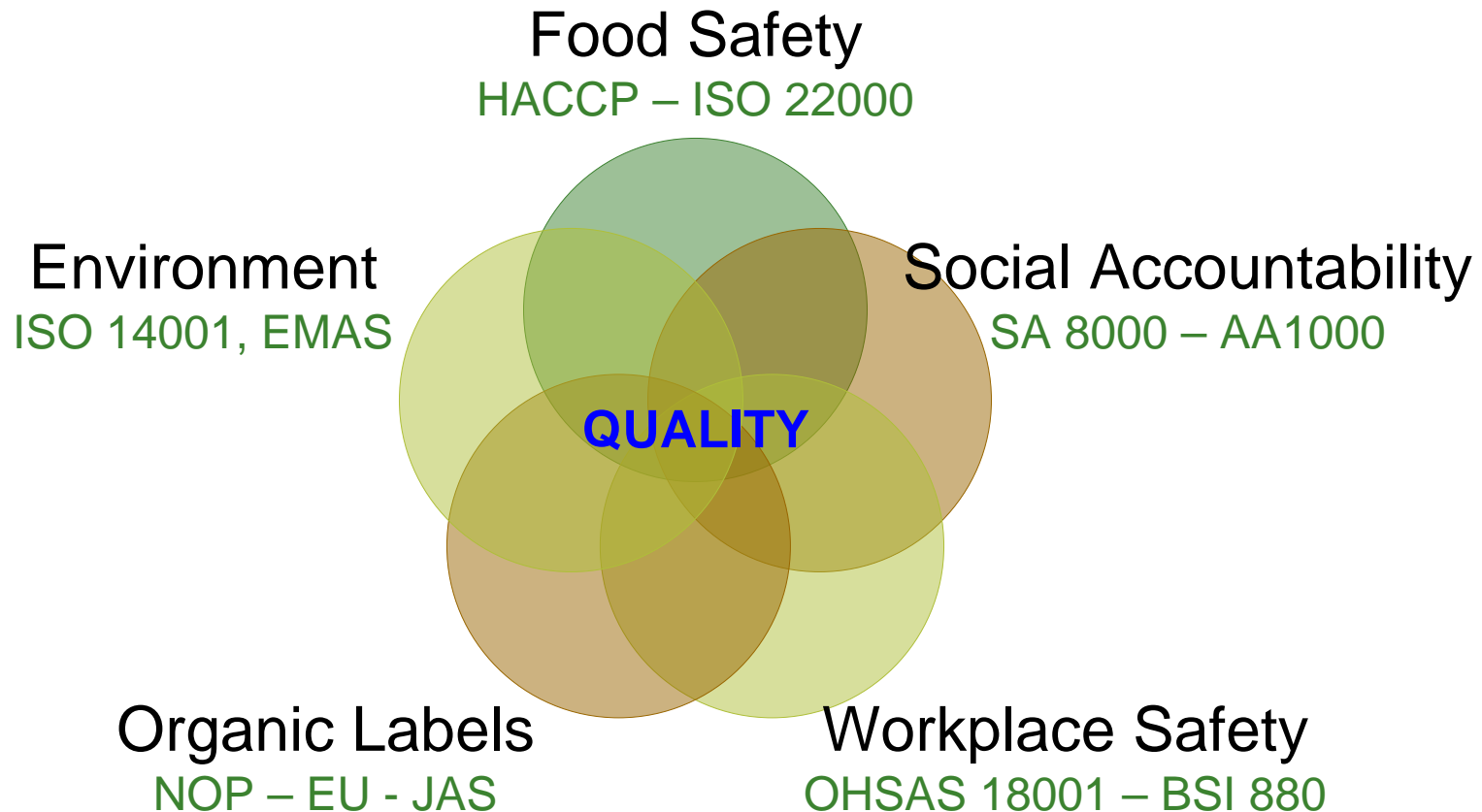


# Emerging Trends | Opportunities

- Proliferation slowing
- Structural uniformity
- Planning & management-driven
- Ecosystem focus emerging
- Local capacity growing
- Consumers starting to pay
- Multinationals listening



# Quality Necessary But Not Sufficient



# Recap

- Pesticides continue to be a major issue environmental issue in USAID
- Pesticides are also health and safety and food safety issue
- Globalization and agrifood consolidation forces us to integrate environmental, health, and food safety concerns
- Regulatory compliance alone does not achieve market access

